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Economic Intelligence Report

DRAFT REPORT OF THE WORKING GROUP ON MINERALS REPORTING
OF THE
SUBCOMMITTEE ON REQUIREMENTS AND FACILITIES FOR COLLATION

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DRAFT REPORT OF WORKING GROUP ON MINERALS REPORTING

Introduction

In the course of assisting the State Department, Division of Foreign Reporting, in a revision of the economic reporting system, the Subcommittee on Requirements and Facilities for Collation of the Economic Intelligence Committee set up a working group to review in detail the requirements of the intelligence agencies for minerals reporting. This method of review was instituted as an experiment and designed to solve the problem of achieving consistency of reporting for individual commodities in a reporting system based on geographic units. The results of the survey are designed to be incorporated in the intelligence agencies' recommendations.

Because the Army and the Navy reported only passing interest in this subject, most of the review was carried on by representatives from CIA, Air Force and State. The Bureau of Mines also participated in some of the discussions, but chose not to be intimately connected with a report because Interior's views on foreign reporting differ in some respects from those of the intelligence agencies and would in any event be presented independently to the Division of Foreign Reporting. Representatives from non-intelligence areas of the State Department were also active participants.

Objectives and Methods

Basic to the working group's approach to the problem was the recognition that reporting need not necessarily be exhaustive to be effective. Furthermore, the Group tried to fit its proposals to the new framework for economic reporting now being adopted by the Department of State. This new system basically transfers all instructions to individual post instructions and seeks to avoid circular instruction for repetitive reporting. It also attempts to set priorities on various demands on post personnel. Consequently, for each subject on which the Working Group recommends reporting, the country coverage, frequency, priority and type of reporting has been noted. This memorandum, because it is addressed to reporting for all countries and for all minerals, may appear complex, but application of the proposals to a single country would be fairly simple.

The standard form for reporting for each country contains four sections (A) Requirements for Basic or Background Reports; (B) Requirements for Repetitive Statistical Data; (C) Requirements for Repetitive Analytic Reporting; and (D) Alert List - Topics of particular importance

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Group's view of how these subjects should be treated with respect to minerals is described in the next few pages. Taking into account possible requirements for each of these types of reporting, the Group tried to simplify matters by proposing three levels of reporting, (a) full coverage which includes the largest number of subjects, most frequent reports, and highest priorities; (b) medium coverage which is less detailed; and (c) minimum coverage which is in the least detail. The meaning of these categories is spelled out specifically in tables 1 and 2 and in the remaining text of this report.

In selecting a specific degree of coverage for any one mineral in each country no arbitrary quantity, value nor percentage cut-off points were finally established, but this approach was used as a starting point. Instead the following criteria were applied to each of the minerals covered:

1. The importance of the commodity in world trade taken in conjunction with the country's contribution to world supplies of that material;
2. Its importance to the country concerned;
3. Its strategic importance, which includes the grade of material, to the free world.

A commodity does not necessarily meet all the above criteria in the same degree. For example, cobalt is not of prime importance to Cuba and Cuban output accounts for a relatively small portion of world supplies, but Cuban cobalt is strategically significant to the free world. Therefore full coverage on cobalt reporting was requested for Cuba. Belgian tin metal is another example of requested full coverage. Although Belgium does not produce tin ore and tin is not one of the leading revenue earners for the country, Belgium is one of the world's leading processors of tin ore and exporters of tin metal.

For each commodity requiring full or medium coverage the emphasis on mining and milling (m), processing (p), or trade (t) is noted so that reporting officers will not attempt to get detailed information, for example, on mining in a country where mining is insignificant but processing or trade is important. A separate category referred to as "watch" has been included to cover commodities which may not now be important and for which statistical data may not now be available but on which we have reason to expect important developments in the near future.

Each country for which minerals reporting is required is listed alphabetically in Appendix A. The reporting post is listed in parentheses after the name of each country. Requirements for full and

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medium reporting are described in detail in later sections. It should be noted, however, that the selection of commodities for minimum reporting introduced new difficulties, because of the great difference in the urgency for reporting various minerals. As a consequence, the category "Minimum Coverage" is broken down into three groups, namely:

- a. Data to be submitted as promptly as possible.
- b. Data to be submitted, but work on these items should not delay reporting of group "a" items.
- bx. Data to be submitted only if available in published form.

The minerals listed for each country have been taken from the present Bureau of Mines "minerals production questionnaire".¹ Some items, such as chemicals, which do not clearly belong in the minerals reporting schedule have been dropped. Those minerals listed in the questionnaires are also omitted if they are not produced at all or if output is insignificant in specified countries. Appendix B lists by commodity only those minerals for which full or medium coverage is desired for one or more countries. Each listing of these selected commodities includes all countries for which reporting is requested in some degree. Those minerals for which no country is given more than minimum coverage have been omitted from Appendix B. Those countries reporting on these items account for only a small portion of the world supply in most cases. The criteria used in selecting the degree of coverage preclude any attempt to make a total world listing for each mineral.

Section A - Requirements for Basic or Background Reports

Section A of each of the economic reporting programs now being sent to the field calls for a single-time basic or background report. Although members of the Group believe that such reports will be desired by their agencies from time to time, they believe that there is no general requirement for single industry or single country reports which should automatically go out in the formal instructions now being drafted. A guide appropriate both for Section A (single-time reporting) and for Section C (periodic analytic reporting) on a particular industry is shown in Appendix C. As Appendix D to this report a comprehensive outline for a single-time report on an individual minerals producer is also presented in order to show which kinds of information may be of interest but we believe it would be more appropriate to incorporate the outline itself in the reporting manual rather than in individual

1. Iron and steel, fuelwood, and petroleum were not covered by the Group. In the case of iron and steel, the Group expects to present a separate report at a later date.

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reporting instructions. This particular outline should not be used as a guide for a report without specific instructions as to which parts of the outline apply to the problem at hand.

Section B - Requirements for Repetitive Statistical Data

Requirements for statistical reporting to fit into Section B of the reporting instructions are outlined below in Table 1 and notes describing the categories more fully are shown in Appendix E. These notes probably should eventually appear in the reporting manual. The reporting manual should also contain brief details about individual commodities indicating, for example, whether metal content of ores and concentrates is reported in terms of gross weight or on a recoverable basis; information on technical terms used for particular commodities; and modifications that should be applied to the outlines for certain commodities. Proposed country and commodity coverage is shown in Appendices A and B.

Table 1. Guide for Statistical Reporting

	Full Coverage		Medium Coverage		Minimum Coverage	
	Frequency	Priority	Frequency	Priority	Frequency	Priority
1. Mine production	quarterly	3	annual	3	annual	3
2. Smelter production	quarterly	3	annual	3	annual	3
3. Refinery production	quarterly	3	annual	3	annual	3
4. Exports* by destination & type of product	quarterly	3	quarterly	3	annual	3
5. Imports* by source and type of product	quarterly	3	quarterly	3	annual	3
6. Actual consumption	annual	4	annual	4	annual	4
7. Stocks-smelter and refinery	annual	3	annual	3	annual	3
8. Prices	quarterly	3	quarterly	3	none	none

* Items 4 and 5 should be shown both in quantity and value.

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Section C - Requirements for Repetitive Analytic Reporting and
Section D - Alert List - Topics of particular importance for
reporting as significant developments occur

Appendix C, already mentioned in connection with single-time industry reporting, contains the descriptive notes for guiding analytic reporting of the minerals industry. These notes should appear in the reporting manual. Below are the Group's recommendations for coverage, frequency and priority of analytical reports. In some instances the subjects clearly call for only occasional revisions, e.g. #3, 4, 9, etc. Other subjects do not require periodic reporting but should be reported upon whenever there are noteworthy developments.

Table 2. Guide for Analytical Reporting

	Full Coverage Frequency	Medium Coverage Priority	Minimum Coverage Frequency	Priority
1. Relative importance of the industry in the economy and in relation to other segments of the minerals industry	annual	4	annual	4
2. Comments on production, consumption and foreign trade	quarterly	3	annual	3
3. Salient features of the industry	annual	4	annual	4
4. Ownership and financial structure	alert list	3	alert list	3
5. Government policies, controls, and laws	alert list	4	alert list	4
6. Taxes, duties and subsidies	alert list	3	alert list	3
7. Participation in international commodity agreements	alert list	4	alert list	4
8. General outlook	quarterly	3	annual	4
9. Description of principal mining methods and metallurgical processes	annual	4	annual	4
10. New activities in exploration and development and technology	annual	4	annual	4
11. Competitive position	alert list	3	alert list	3
12. Factors affecting production	annual	4	-	-
13. Special labor problems	alert list	3	alert list	3

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Production, Processing and Consumption of Minerals and Metals

Full Coverage	Medium Coverage	Watch List	Minimum Coverage		
			a	b	bx
<u>ADEN (Aden)</u>			Salt		
<u>AFGHANISTAN (Kabul)</u>				Beryl Cement Chromite Lead Salt Solid fuels Talc Zinc	
<u>ALGERIA (Algiers)</u>	Antimony-m Lead-m Phosphates-m Zinc-m		Gypsum Solid fuels	Barite Cement Limestone Pyrites Salt Sand and gravel Silver Sulfur	Building stone Clay Copper Diatomite Feldspar Flagstone Kaolin (China clay) Lime Marble Mercury Stone
<u>ANGLO-EGYPTIAN SUDAN (Cairo)</u>				Gypsum Salt	Gold Magnesite
m - Mine production (including milling) p - Processing (including smelting, refining, coking) t - Trade					

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APPENDIX A (continued)

Full Coverage	Medium Coverage	Watch List	Minimum Coverage			
			a	b	bx	
<u>ANGOLA (Luanda)</u>	Diamonds-m	Beryl-m Tungsten-m	Manganese	Copper Gold Mica Salt	Asphalt Cement Gypsum Lead	
<u>ARGENTINA (Buenos Aires)</u>	Beryl-m Tungsten-m	Lead-m, p Mica-m Solid fuels-t Zinc-m, p	Copper-t	Antimony Barite Bismuth Cement Fluor-spar Gypsum Salt Silver Sulfur Tin	Clay Columbite-Tantalite Corundum Dolomite Feldspar Gold Graphite Lime Limestone Marble Silica Talc	Arsenic Asbestos Celestite Chromite Diatomite Garnet Lithium minerals Magnesite Manganese Mercury Mineral pig- ments(Ochre) Serpentine Stone, quarry Vanadium Vermiculite
<u>AUSTRALIA (Melbourne)</u>	Lead-m, p Solid fuels-m, p Titanium (rutile & ilmenite)-m Tungsten-m Zinc-m, p Zircon-m	Cadmium-m, p Columbite-tantalite-m Copper-m, p	Aluminum-p Beryl-m Pyrites-m	Asbestos Bauxite Cement Gold Gypsum Magnesite Salt Silver Tin	Alunite Antimony Arsenic Barite Bismuth Cobalt Diatomite Dolomite Feldspar	Bentonite (Plastic clay) Damourite Diamonds Flint Fuller's earth Gems Glauconite Mineral pigments
m - Mine production (including milling) p - Processing - (including smelting, refining, coking)						

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APPENDIX A (continued)

Full Coverage	Medium Coverage	Watch List	Minimum Coverage		
			a	b	bx
<u>AUSTRALIA (Melbourne) - continued</u>			Fluorspar Graphite Kaolin (China clay) Limestone Lithium minerals Manganese Mica Molybdenum Platinum (Group metals) Phosphates Rare earths Selenium Silica and silica stone Sillimanite Talc Vermiculite		Sand, glass Serpentine
<u>AUSTRIA (Vienna)</u>	Aluminum, p Solid fuels-m, p	Lead-m, p Pyrites, m, t Zinc-m, p	Cement Copper Graphite Magnesite Pyrophyllite Salt Talc	Antimony Arsenic Barite Bauxite Feldspar Gold Gypsum Kaolin (China clay) Mica Molybdenum	Asbestos Asphalt Calcite Clay Mercury Mineral pigments Phosphates Silver Sulfur Tungsten Wulfenite (lead molyb- date)

m - Mine production (including milling)

p - Processing (including smelting, refining, and trade)

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APPENDIX A (continued)

Full Coverage	Medium Coverage	Watch List	a	Minimum Coverage
				b
				bx
<u>BAHAMA ISLANDS (Nassau)</u>				Lime Limestone Rock, cracked Salt
<u>BARBADOS AND LEeward ISLANDS (Barbados)</u>		Bauxite-m		Barite Limestone Salt
<u>BECHUANALAND (Pretoria or Johannesburg)</u>			Kyanite	Gold Silver
<u>BELGIAN CONGO, including RUANDA-UURUNDI (Elisabethville)</u>	Cadmium-m		Gold Silver	Cement Germanium Gypsum Lead Platinum group metals Salt Solid fuels
Cobalt-m, p Columbite and Tantalite-m Copper-m, p Diamonds-m Manganese-m Tin-m, p Tungsten-m Zinc-m				Bismuth Cerium Corundum Graphite Lime Limestone
<p>m - Mine production (including milling) p - Processing (including smelting, refining, coking) t - Trade</p>				
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Full Coverage	Medium Coverage	Watch List			Minimum Coverage
			a	b	bx
<u>BELGIUM (Brussels)</u>					
Antimony-p		Columbite-t	Cement	Arsenic	Aluminum
Cadmium-p		Germanium-p		Bentonite	Barite
Cobalt-p				(plastic clay)	Clay, potters
Copper-p				Dolomite	Gravel
Diamonds-p				Kaolin (China clay)	Grinding stone
Lead-p				Pyrites	Lime
Solid fuels-m,p				Selenium	Limestone and flux
Tin-p					Manganese
Zinc--p					Marble
					Mineral pigment (Ochre)
					Paving stone
					Phosphates
					Porphyry
					Sand
					Sandstone
					Silica
					Slate
					Stone

BERMUDA (Hamilton)Lime
Limestone

m - Mine production (including milling)
 p - Processing (including smelting, refining, caking)
 t - Trade

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APPENDIX A (continued)

Full Coverage	Medium Coverage	Watch List	Minimum Coverage		
			a	b	bx
<u>BOLIVIA (La Paz)</u>			Bismuth Copper Silver	Cement Cobalt Gold Limestone Mica Selenium Stone	Dolomite Fluorspar Lime Manganese Mercury Salt
Antimony-m Asbestos-m Tin-m Tungsten-m	Lead-m Sulfur-m Zinc-m				
<u>BRAZIL (Rio de Janeiro)</u>					
Beryl-m Columbite-tantalite-m Manganese-m Mica-m Quartz-m Rare earths-m Tungsten-m Zircon-m	Aluminum-p Diamonds-m Nickel-m Solid fuels-m,p Tin-m,p	Titanium (Rutile & ilmenite) -m	Arsenic Barite Bauxite Cement Gold Gypsum Pyrites Salt	Clay Corundum Feldspar Fluorspar Gems (other than diamonds) Graphite Lime Limestone Magnesite Marble Phosphates Sand Silver Stone	Agate Asbestos Bismuth Calcite Chalk Chromite Diatomite Dolomite Granite Lead Lithium minerals (amblygonite lepidolite and spodumene) Mineral pigments Slate Talc and soapstone
<p>m - Mine production (including milling) p - Processing (including smelting, refining, coking) t - Trade</p>					
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Full Coverage	Medium Coverage	Watch List	Minimum Coverage		
			a	b	bx
<u>BRITISH BORNEO (Singapore)</u>					
<u>Brunei</u>				Road stone Solid fuels	
<u>North Borneo</u>				Manganese Solid fuels	Antimony Copper
<u>Sarawak</u>				Antimony Bauxite Gold Lime Phosphate (Guano) Road stone Silver Solid fuels	Lead
<u>BRITISH GUIANA (Port-of-Spain)</u>				Gold	Granite
Bauxite-m	Columbite-tan- talite-m Diamonds-m				
<u>BRITISH HONDURAS (Belize)</u>				Limestone	
M - Mine production (including milling) p - Processing (including smelting, refining, coking) t - Trade					
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APPENDIX A (continued)

Full Coverage	Medium Coverage	Watch List	a	b	Minimum Coverage
					bx
<u>BRITISH SOMALILAND (Aden)</u>				Limestone	Beryl Salt
<u>BURMA (Rangoon)</u>					
Tungsten-m	Antimony-m Lead-m,p Solid fuels-m Tin-m Zinc-m		Cobalt Copper Molybdenum Nickel Titanium	Bismuth Building stone and road stone Cement Gold Manganese Salt Silver	Clay for pottery Gems Quartz Talc
<u>CANADA (Ottawa)</u>					
Aluminum-p Asbestos-m Bismuth-m,p Cadmium-m,p Cobalt-m,p Copper-m,p Lead-m,p Magnesium-p Nickel-m,p Platinum Group metals-m,p Solid fuels, -m,p Titanium (ilmenite) -m,p Zinc-m,p	Antimony-m Beryl-m Columbite- Tantalite-m Fluorspar-m Pyrites-m,p Tungsten-m	Germanium-m	Barite Cement Feldspar Gold Gypsum Mica Selenium Silver Sulfur Tellurium	Arsenic Chromite Graphite Molybdenum Phosphates Salt Talc and soapstone	Diatomite Indium Kaolin (China clay) Magnesite Manganese Mercury Tin

m - Mine production (including milling)

p - Processing (including smelting, refining, coking)

t - Trade

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APPENDIX A (continued)

Full Coverage	Medium Coverage	Watch List	a	b	Minimum Coverage bx
<u>CEYLON (Colombo)</u>				Salt	Cement Chalk Clay Gems Granite Gypsum Limestone Mica Rare earths Sand Titanium (ilmenite)
Graphite-m					
<u>CHILE (Santiago)</u>			Cement Gold Gypsum Iodine Mercury Silver Solid fuels	Asbestos Barite Clay Cobalt Feldspar Lead Limestone Marble Phosphates Salt Talc Zinc	Borates Diatomite Dolomite Mineral pig- ments Quartz Tungsten
Copper-m, p	Manganese-m				
Molybdenum-m, p	Sulfur-m				
Nitrates-m					
<u>CHRISTMAS ISLAND (London)</u>			Phosphates		

m - Mine production (including milling)

p - Processing (including smelting, refining and coking)

t - Trade

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APPENDIX A (continued)

Full Coverage	Medium Coverage	Watch List	Minimum Coverage		
			a	b	bx
<u>COLOMBIA (Bogota)</u>					
Platinum group metals-m	Solid fuels-m Sulfur-m	Asbestos Asphalt Cement Gems Gold	Barite Gypsum Limestone Salt Silver		Zinc
<u>COSTA RICA (San Jose)</u>					
			Diatomite Gold Salt		Lime Limestone Silver Sulfur
<u>Cuba (Habana)</u>					
Cobalt-m,p Nickel-m,p	Chromite-m Copper-m Manganese-n	Cement Gypsum	Asphalt Gold Limestone Marble Salt Silver Stone		Lead (from gold- silver content)
<u>CYPRUS (Nicosia)</u>					
Copper-m Pyrites-m	Chromite-m	Asbestos	Gypsum Magnesite Salt		Gold Mineral pigments Silver

m - Mine production (including milling)

p - Processing (including smelting, refining, coking)

t - Trade

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Full Coverage	Medium Coverage	Watch List	a	b	Minimum Coverage
					bx
<u>DENMARK (Copenhagen)</u>					
• Cryolite-p*	Solid fuels-t	Gemont		Kaolin (China clay)	Chalk Clay (other than Kaolin) Flint Lime Marl Salt Stone
* - Cryolite production in Greenland is reported from Denmark					
<u>DOMINICAN REPUBLIC (Ciudad Trujillo)</u>		Bauxite-m		Cement Gold Gypsum Limestone Marble	Lime Salt
<u>ECUADOR (Quito)</u>		Solid fuels -m Sulfur-m	Gold Silver	Cement Gypsum Kaolin (China clay) Salt	Copper Lead Magnesite
m - Mine production (including milling) p - Processing (including smelting, refining, coking) t - Trade					
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APPENDIX A (Continued)

Full Coverage	Medium Coverage	Watch List	Minimum Coverage		
			a	b	bx
<u>EGYPT (Cairo)</u>	Manganese-m Phosphates-m Salt-m	Titanium (ilmenite)- m	Cement Gypsum	Asbestos Chromite Clay Gold Granite Limestone Mineral pig- ments Sand Sandstone Talc Tungsten	Barite Basalt Black sands Calcite Diatomite Feldspar Gravel Lead Pumice stone Rare earths Sulfur Tin Zinc
<u>EL SALVADOR (San Salvador)</u>			Gold Silver	Lead Lime Limestone Salt	Cement Clay Pozzuolana Stone, ornamental (specify)
<u>ERITREA (Asmara)</u>				Cement Feldspar Gold Kaolin(China clay) Salt	Manganese Mica Potash salts Sulfur

m - Mine production (including milling)

p - Processing (including smelting, refining, coking)

t - Trade

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Full Coverage	Medium Coverage	Watch List	e	Minimum Coverage	Coverage
				a	b
<u>ETHIOPIA (Addis Ababa)</u>				Cement Gold Platinum group metals Salt Solid fuels	Gypsum Mica Potash
<u>FIJI ISLANDS (Noumea)</u>				Gold Silver	Manganese
<u>FINLAND (Helsinki)</u>				Beryl Gold Gypsum Lead Lime Limestone Molybdenum Selenium Silver Talc Tungsten Zinc	Dolomite Graphite Kaolin (China clay) Marble Marl Sulfur
<u>FRANCE (Paris)</u>				Arsenic Barite Bismuth Cadmium Cement	Antimony Asbestos Diatomite Gold Kaolin(China clay)
Aluminum-p Bauxite-m,p Solid fuels- m,p	Copper -t Lead-m,p Magnesium-p Nickel-p Pyrites-m	Titanium-p			Graphite
<p>m - Mine production (including milling) p - Processing (including smelting, refining, coking) t - Trade</p>					

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APPENDIX A (continued)

Full Coverage	Medium Coverage	Watch List	a	b	Minimum Coverage
					bx
<u>FRANCE (Paris)</u>	<u>- continued</u>				
	Rare earths-p Tin-t Zinc-m,p		Feldspar Fluorspar Gypsum Phosphates Salt Silver Sulfur Talc Tungsten	Selenium	
<u>FRENCH CAMEROONS (Elisabethville)</u>			Titanium (rutile)	Gold Tin	Salt
<u>FRENCH EQUATORIAL AFRICA (Elisabethville)</u>	Diamonds-m	Manganese-m		Cadmium (content of zinc concentrate) Gold Lead Titanium (rutile) Zinc	Columbite- Tantalite Corundum Graphite Rare earths Salt Silver
<u>FRENCH GUIANA AND ININI (Martinique)</u>		Bauxite-m Diamonds-m Tantalite-m		Gold	
m - Mine production (including milling) p - Processing (including smelting, refining, coking) t - Trade					
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Full Coverage	Medium Coverage	Watch List			Minimum Coverage	
			b	b	bx	
<u>FRENCH MOROCCO</u> (Casablanca)	Beryl-m Cobalt-m Lead-m,p Manganese-m Phosphates-m Zinc-m	Antimony-m Asbestos-m Salt-m	Zinc-p	Cement Silver Solid fuels	Copper Fluorspar Graphite Gypsum Mica Molybdenum Smectite (green clay)	Gold Mineral pig- ment(ochre) Nickel Talc Tin Tungsten
<u>FRENCH SOMALILAND</u> (Addis Ababa)					Salt	
<u>FRENCH WEST AFRICA</u> , including <u>FRENCH TOGO LAND</u> (Dakar)		Bauxite-m Diamonds-m	Manganese-m	Titanium (ilmenite & rutile)	Gold Limestone Salt	Chromite Lead Phosphates Silver Tin Tungsten
<u>GERMANY, WESTERN</u> (Duesseldorf, assigned from Bonn)	Aluminum-p Copper-p Lead-m,p Solid fuels-m,p Zinc-m,p	Cobalt-p Columbite-p Fluorspar-m Manganese-t Nickel-p Potash-m Pyrites-m Salt-m		Berite Bismuth Cement Feldspar Graphite Gypsum Magnesite Silver Talc and soapstone	Arsenic Bauxite Cadmium Chromite Diatomite Gold Kaolin (China clay) Phosphates Selenium Tin-p	Antimony Mercury Molybdenum Silicon Tungsten Vanadium

m - Mine production (including milling)

p - Processing (including smelting, refining, coking)

t - Trade

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APPENDIX A (continued)

Full Coverage	Medium Coverage	Watch List	a	b	Minimum Coverage
					bx
<u>GOLD COAST, ASHANTI AND BRITISH TOGOLAND (Accra)</u>			a	b	
Bauxite-m Diamonds-m Manganese-m	Aluminum-p	Gold Platinum group metals Silver		Salt	
<u>GREECE (Athens)</u>					
Bauxite-m Chromite-m Lead-m, p Zinc-m	Nickel-m Pyrites-m	Magnesite	Arsenic Barite Cement Gypsum Kaolin (China clay) Manganese Molybdenum Salt Solid fuels Sulfur Talc	Antimony Asbestos Asphalt Bitumen Bituminous schist Emery Grinding stones Limestone Marble Silver Terre de santorin	
<u>GREENLAND (Godthab)</u>					
Cryolite *	Lead-m Zinc-m		Solid fuels	Graphite	
* - Cryolite data reported from Copenhagen, Denmark					
<u>GUATEMALA (Guatemala)</u>			Lead Zinc	Cement Chromite Mica Salt	Copper Gold Silver Solid fuels Sulfur

m - Mine production (including milling)
 p - Processing (including smelting, refining, coking)
 t - Trade

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APPENDIX A (continued)

Full Coverage	Medium Coverage	Watch List	a	b	Minimum Coverage	
					bx	
<u>HAITI (Port-au-Prince)</u>		Bauxite-m		Lime Limestone Salt	Gold	
<u>HONDURAS (Tegucigalpa)</u>			Gold Lead Silver	Salt	Antimony	
<u>HONG KONG</u>			Solid fuels-t Tin-p,t	Cement Kaolin (China clay)	Fluorspar Garnet Lead Mica Molybdenum Pyrites Quartz Tungsten	
<u>ICELAND (Reykjavik)</u>				Solid fuels	Cement Iceland spar Sulfur	
<u>INDIA (New Delhi)</u>	Beryl-m Kyanite-m Manganese-m Mica-m,p Rare earths-m,p Solid fuels-m,p Titanium (ilmenite and rutile)-m	Aluminum-p Salt-m	Sulfur and pyrites-m	Barite Bauxite Cement Chromite Corundum Gold Gypsum Magnesite Talc and steatite Copper	Asbestos Feldspar Fire clay Fluorspar Fuller's earth Graphite Kaolin (China stone and clay) Lime Potash	Agate Alum Amber Bentonite (plastic clay) Building Kaolin (China stone and clay) Calcite Diamonds

m - Mine production (including milling)

p - Processing (including smelting, refining, coking)

t - Trade

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APPENDIX A (continued)

Full Coverage	Medium Coverage	Watch List	Minimum Coverage		
			a	b	bx
<u>INDIA (New Delhi) -- continued</u>			Silver Zircon		Gems Lead Mineral pig- ments (ochre) Phosphates Samarckite Sand Tungsten Vanadium Zinc
<u>INDOCHINA - ASSOCIATED STATES OF VIET-NAM, CAMBODIA AND LAOS (Saigon)</u>			Solid fuels	Cement Salt Tin Zinc	Antimony Asbestos Bauxite Chromite Copper Gems Gold Lead Manganese Molybdenum Phosphates Titanium (ilmenite & titanifer- ous iron) Tungsten
<u>INDONESIA (Djakarta)</u>					
Bauxite-m Tin-m			Nickel Salt Solid fuels	Cement Manganese Phosphates Platinum group metals Sulfur	Diamonds Kaolin (China clay) Lime Limestone Rare earths Stone, incl. trass

m-Mine production (including milling)

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(including smelting, refining, coking)

t - Trade

APPENDIX A (continued)

Full Coverage	Medium Coverage	Watch List	Minimum Coverage	
			a	b
				bx
<u>IRAN (Tehran)</u>		Solid fuels	Cement Clay Salt	Antimony Arsenic Chromite Gypsum Lead Manganese Sulfur
<u>IRAQ (Baghdad)</u>		Copper-m Sulfur-m	Salt	Cement Gypsum Solid fuels
<u>IRELAND (Dublin)</u>		Gypsum	Barite Cement Fire clay Limestone Phosphates Pyrites Solid fuels	Lead Mineral pig- ments Salt Sand and gravel Slate Stone Talc and soapstone Zinc
<u>ISRAEL (Tel Aviv)</u>	Bromine-m Potash-m	Copper-m,p Diamonds-p,t	Cement Manganese Phosphates	Gypsum Salt
				Solid fuels

m - Mine production (including milling)

p - Processing (including smelting, refining, coking)

t - Trade

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APPENDIX A (continued)

Full Coverage	Medium Coverage	Watch List	Minimum Coverage
			a b bx
ITALIAN-SOMALI LAND (Addis Ababa)			
Salt			
ITALY (Rome)			
Aluminum-p	Bauxite-m,p	Antimony	Bentonite Asphalt
Lead-m,p	Copper-t	Arsenic	(plastic Clays, other
Mercury-m,p	Fluorspar-m	Asbestos	clay) than Kaolin
Pyrites-m	Solid fuels-	Barite	Cobalt Iodine
Sulfur-m,p	t,p	Cadmium	Gold Marble
Zinc-m,p	Tin-t	Cement	Kaolin Mica
		Feldspar	(China Tungsten
		Graphite	clay)
		Gypsum	Magnesite
		Salt	Magnesium
		Silver	Manganese
		Talc and	
		steatite	
JAMAICA AND DEPENDENCIES (Kingston)			
Jamaica			
Bauxite-m,p			Cement
			Gypsum
			Lime
			Limestone
			Phosphates
Types and Grades of Ores			
Salt			

m - Mine production (including milling)

p - Processing (including smelting, refining, coking)

t - Trade

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APPENDIX A (continued)

Full Coverage	Medium Coverage	Watch List	a	b	Minimum Coverage bx
<u>Cayman Islands</u>			Salt		Phosphates
<u>JAPAN (Tokyo)</u>					
Aluminum-p	Cobalt-p		Arsenic	Alunite	Agalmatolite
Copper-m, p	Lead-m, p		Asbestos	Antimony	(silicate
Pyrites-m	Magnesium-p		Bismuth	Bawite	of
Sulfur-m	Manganese-t		Cadmium	Fire clay	aluminum
Zinc, m, p	Nickel-p		Cement	Gold	and
	Salt-m		Chalcocite	Kaolin	potass-
	Solid fuels- m, p		Feldspar	(China clay)	ium).
	Titanium-p		Fluorspar	Molybdenum	Bauxite
			Graphite	Phosphates	Diaspore
			Gypsum	Potash	Diatomite
			Mercury	Selenium	Dolomite
			Salt	Silica	Gairome clay
			Silver	Tin	Garnet sand
			Talc	Tungsten	Limestone
					Platinum group metals
					Pumice sand
					Stone, potters
					Volcanic sand
					Asphalt
<u>JORDAN (Amman)</u>					
Potash-m	Phosphates-m		Manganese	Cement	Barite
				Marble	Clay
				Salt	Sand

m = Mine production (including milling)

m = Mine production (including milling)
p = Processing (including smelting, refining, coking)

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APPENDIX A (continued)

Full Coverage	Medium Coverage	Watch List	Minimum Coverage	
			a	b
				bx
<u>KENYA AND ZANZIBAR (British East Africa)</u> (Nairobi)				
Kyanite-m	Graphite-m Lead-m		Asbestos Copper Diatomite Gold Gypsum Limestone Magnesite Marble Mica Salt Silver Talc and soap- stone	Bentonite (plastic clay) Cement Corundum Clay Eburru clay Feldspar Lime Solid fuels Vermiculite
<u>KOREA, SOUTH (Pusan)</u>				
Tungsten-m	Graphite-m Solid fuels-m		Aluminum Beryl Bismuth Columbite Tantalite Fluorspar Salt	Barite Cement Copper Gold Kaolin (China clay) Lead Mica Molybdenum Phosphates Potash Silver Talc Zinc
<u>LEBANON (Beirut)</u>			Cement	Salt Lime Solid fuels

m - Mine production (including milling)

p - Processing (including smelting, refining, coking)

t - Trade

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APPENDIX A (continued)

Full Coverage	Medium Coverage	Watch List	a	b	bx	Minimum Coverage
<u>LIBERIA (Monrovia)</u>						Diamonds Gold Rare earths Solid fuels
<u>LIBYA-CYRENAICA (Benghazi)</u>				Salt		Limestone Phosphates Sulfur
<u>LIBYA-TRIPOLITANIA (Tripoli)</u>				Salt		
<u>LUXEMBOURG (Luxembourg)</u>						
	Solid fuels- m			Cement Dolomite Gypsum Lime Limestone Quartz		Gravel Sand Slate, roof
<u>MADAGASCAR (Tananarive)</u>						
Graphite-m	Beryl-m			Gems		Asbestos
Mica-m	Quartz-m			Cement		Feldspar
				Corundum		Kaolin
				Gold		(China clay)
				Solid fuels		Phosphates
				Talc		Rare earths
						Slate
						Stone

m - Mine production (including milling)

p - Processing (including smelting, refining, coking)

t - Trade

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APPENDIX A (continued)

Full Coverage	Medium Coverage	Watch List	Minimum Coverage		
			a	b	bx
<u>MALAYA, FEDERATION OF (Singapore)</u>		Bauxite-m	Cement Corundum Road stone Salt Solid fuels Titanium (ilmenite)	Gold Kaolin (China clay) Manganese Tungsten	Rare earths
Columbite- Tantalite-m Tin-m,p					
<u>MALTA (Valletta)</u>					Lime Limestone Salt
<u>MEXICO (Mexico)</u>					
Antimony-m,p Copper-m,p Lead-m,p Solid fuels-m,p Sulfur-m Tungsten-m Zinc-m,p	Arsenic-m,p Bismuth-m Cadmium-m Fluorspar-m Graphite-m Manganese-m Mercury-m,p Molybdenum-m		Cement Gold Salt Silver	Asphalt Celestite Clay Lime Limestone Marble Mica Selenium Strontianite Tin	Calcite Cobalt Gypsum Phosphates Vanadium
<u>MOZAMBIQUE (Lourenco Marques)</u>	Columbite- Tantalite-m		Beryl Corundum Graphite	Bauxite Cement Gold Lithium minerals (lepid- olite) Mica Salt Silver Solid fuels	Gems (tour- maline) Kaolin (China clay) Rare earths Samarskite Tine

m - Mine production (including milling)

p - Processing (including smelting, refining, coking)

t - Trade

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RESTRICTEDAPPENDIX A (continued)

Full Coverage	Medium Coverage	Watch List	a	b	Minimum Coverage bx
			Phosphates		
<u>NAURU AND OCEAN ISLANDS (London)</u>					
			Cement		Potash
			Salt		
<u>NETHERLANDS (Amsterdam)</u>					
Diamonds-p	Zinc-p				
Solid fuels-					
m, p					
Tin-p					
<u>NETHERLANDS WEST INDIES (Curacao)</u>					
			Phosphates	Gold	
			Vanadium	Salt	
<u>NEW CALEDONIA AND DEPENDENCIES AND MAKATEA ISLAND (Noumea)</u>					
Cobalt-m, p	Chromite-m		Phosphates	Gypsum	
Nickel-m, p				Manganese	Magnesite
					Solid fuels
<u>NEW GUINEA, TERRITORY OF, AND PAPUA (Melbourne)</u>					
			Gold	Manganese	
			Platinum	Pearls	
			group metals		
			Silver		
<u>NEW ZEALAND (Wellington)</u>					
	Solid fuels-t		Cement	Gold	Antimony
			Silver	Lime	Arsenic
				Limestone	Asbestos
				Magnesite	Bentonite
				Manganese	(plastic clay)
				Mercury	Clay
				Silica sand	Copper
				Tungsten	Diatomite

m - Mine production (including milling)

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APPENDIX A (continued)

Full Coverage	Medium Coverage	Watch List	Minimum Coverage			
			a	b	bx	
<u>NEW ZEALAND (Wellington) - (continued)</u>					Dolomite Mica Phosphates Platinum group metals Pumice stone Talc	
<u>NICARAGUA (Managua)</u>			Gold Silver	Cement Salt	Lead Lime Sulfur Zinc	
<u>NIGERIA (Lagos)</u>	Columbite- Tantalite-m Tin-m	Solid fuels-m		Gold Lead Salt Silver Stone Tungsten	Zinc	
<u>NORTHERN RHODESIA (Salisbury)</u>	Cobalt-m Copper-m, p	Lead-m, p Zinc-m, p	Gold Selenium Silver Vanadium	Mica	Beryl Corundum Limestone Manganese Silica Tin	
<u>NORWAY (Oslo)</u>	Aluminum-p Columbite- Tantalite-m, p Nickel-p Pyrites-m Sulfur-m Zinc-m, p	Copper-m, p Magnesium-p Molybdenum-m, p Solid fuels-t Titanium (ilmenite and rutile)-m	Cobalt-p	Beryl Cadmium Cement Feldspar Talc and soapstone	Diatomite Fluorspar Graphite Lead Magnesite Mica Selenium Silver	Gold Platinum group metals Tin

m - Mine production (including milling)

p - Processing (including smelting, refining, coking)

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APPENDIX A (continued)

Full Coverage	Medium Coverage	Watch List	Minimum Coverage			
			a	b	bx	
<u>NYASALAND (Salisbury)</u>			Corundum	Clay Graphite	Asbestos	
<u>PAKISTAN (Karachi)</u>	Solid fuels-m		Cement Chromite Gypsum Salt		Antimony Beryl Building stone and road stone Fire clay Fuller's earth Kaolin (China clay) Limestone Sand, glass	
<u>PANAMA (Panama)</u>		Manganese-m		Cement Gold	Salt Silver	
<u>PARAGUAY (Asuncion)</u>				Cement	Kaolin (China clay) Lime Stone	
<u>PERU (Lima)</u>	Bismuth-m,p Copper-m,p Lead-m,p Tungsten-m Vanadium-m Zinc-m,p	Sulfur-m Solid fuels-m	Germanium-m	Antimony Cadmium Cement Gold Gypsum Indium Molybdenum Silver	Arsenic Asphalt Barite Clay, includ- ing refract- ory	Calcite Onyx Marble, crushed Quartz, crushed Silica

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APPENDIX A (continued)

Full Coverage	Medium Coverage	Watch List	a	b	Minimum Coverage
					bx
<u>PERU (Lima) - (continued)</u>					Feldspar Kaolin (China clay) Lime Limestone Mercury Mica Salt Stone Tin
<u>PHILIPPINES, REPUBLIC OF (Manila)</u>					Platinum group metals Sand, gravel, crushed rock Stone
Chromite-m Copper-m	Manganese-m	Pyrites (Sulfur) -m	Gold Lead Silver	Asphalt Cement Clay Gypsum Lime Phosphates Salt Solid fuels	
<u>PORTUGAL (Lisbon)</u>					Asbestos Copper Granite Lead Limestone Marble Mercury Mica Phosphates Potash Sand and gravel Slate
Beryl-m Pyrites-m Tin-m Tungsten-m		Solid fuels-m	Cement Gypsum	Antimony Arsenic Barite Chromite Feldspar Gold Kaolin (China clay) Lithium minerals (ambly- gonite)	

m - Mine production (including milling)

p - Processing (including smelting, refining, and coking)

t - Trade

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APPENDIX A (Continued)

Full Coverage	Medium Coverage	Watch List	Minimum Coverage			
			a	b	bx	
<u>PORTUGAL (Lisbon)</u>				Manganese Salt Silver Titanium	Sulfur Talc	
<u>PORTUGUESE INDIA (Bombay)</u>		Manganese-m		Salt		
<u>SAUDI ARABIA (Jidda)</u>				Construction materials Copper Gold Gypsum Salt Silver Solid fuels		
<u>SEYCHELLES ISLANDS (Mombasa)</u>			Phosphates			
<u>SIERRA LEONE (Monrovia)</u>	Diamonds-m		Chromite	Gold Platinum group metals		
<u>SOUTHERN RHODESIA (Salisbury)</u>	Asbestos-m Chromite-m Solid fuels-m	Beryl-m	Copper-m	Gold Mica Pyrites Tantalite	Antimony Arsenic Barite Corundum	Bismuth Cement Columbite-Tantalite

m - Mine production (including milling)

p - Processing (including smelting, refining, coking)

t - Trade

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APPENDIX A (continued)

Full Coverage	Medium Coverage	Watch List	a	Minimum Coverage
				b
<u>SOUTHERN RHODESIA (Salisbury) - continued</u>				bx
			Fluorspar Lead Limestone Lithium minerals (ambly- gonite) Magnesite Silver Tin Tungsten Vermiculite	Diamonds Feldspar Kaolin (China clay) Manganese Phosphates Quartzite
<u>SOUTH WEST AFRICA (Capetown)</u>				
Beryl-m Cadmium-m Copper-m	Diamonds-m Lead-m Vanadium-m Zinc-m	Tungsten-m	Lithium minerals (ambly- gonite, lepidolite, petolite) Silver	Barite Cobalt Germanium Gold Graphite Limestone Marble Salt Tin
				Bismuth Fluorspar Gems (tour- maline) Manganese Rose quartz Solid fuels
<u>SPAIN (Madrid)</u>				
Mercury-m, p Pyrites-m Tungsten-m	Aluminum-p Fluorspar-m Lead-m, p Solid fuels- m, p Zinc-m, p		Barite Bauxite Bismuth Cement Copper Gypsum Manganese Phosphates Potash Salt Silver Sulfur Talc and soapstone	Antimony Arsenic Asphalt Bentonite (plastic clay) Beryl Calcite Clay Diatomite Feldspar Gold Graphite Cobalt
				Agate Alabaster Alum Asbestos Basalt Celestite Chalk Chrome - nickel ore Dolomite Emery Garnet Gems

m - Mine production (including milling)

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t - Trade~~RESTRICTED~~

RESTRICTEDAPPENDIX A (Continued)

Full Coverage		Medium Coverage		Watch List		
				a	b	bx
<u>SPAIN (Madrid)</u>		Tin		Granite	Glauberite	
				Gravel	Mineral	
				Kalk	pigment	
				Kaolin	(ochre)	
				(China clay)	Ophite	
				Lithium minerals	Quartz	
				(amblygonite)	Scagliola	
				Magnesite	Serpentine	
				Marble	Slate	
				Marl	Trachyte	
				Mica	Tripoli	
				Molybdenum		
				Pumice		
				Sand		
				Silica		
				Titanium		
				(ilmenite)		
<hr/>						
<u>SURINAM (Paramaribo)</u>						
Bauxite-m		Beryl-m		Gold	Granite	
		Columbite-				
		Tantalite-				
		m				
		Mica-m				
<hr/>						
<u>SWAZILAND (Johannesburg)</u>						
		Columbite-	Asbestos	Barite	Corundum	
		Tantalite-		Gold	Silver	
		m		Tin		
<hr/>						

m - Mine production (including milling)

p - Processing (including smelting, refining, coking)

t - Trade

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APPENDIX A (continued)

Full Coverage	Medium Coverage	Watch List	a	b	Minimum Coverage
					bx
<u>SWEDEN (Stockholm)</u>					
Aluminum-p	Arsenic-m Copper-m,p Lead-m,p Pyrites-m Solid fuels-t Zinc-m		Bismuth Cement Feldspar Fluorspar Selenium Silver Talc Tungsten	Barite Diatomite Gold Kaolin (China clay) Manganese Mica Molybdenum Nickel	Chromite Cobalt Graphite Gypsum Mercury Salt Sulfur
<u>SWITZERLAND (Bern)</u>					
Aluminum-p	Copper-t Solid fuels-t Tin-t	Lead-t Pyrites-t	Cement Gypsum Magnesium Salt	Fluorspar	Arsenic Asbestos Asphalt Barite Manganese Slate Stone
<u>SYRIA (Damascus)</u>					
					Asphalt Cement Gypsum Salt
<u>TAIWAN (Taipei)</u>					
	Aluminum-p	Manganese-m	Cement Salt Solid fuels Pyrites Rare earths	Copper Gold Phosphates Silver Sulfur	

m - Mine production (including milling)

p --Processing (including smelting, refining, coking)

t - Trade

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~~RESTRICTED~~APPENDIX A (Continued)

Full Coverage	Medium Coverage	Watch List	Minimum Coverage	
			a	b
<u>TANGANYIKA (Dar-es-Salaam)</u>				
	Diamonds-m	Lead	Gold Kaolin (China clay) Limestone Mica Phosphates (guano) Salt Silver Talc and soapstone Tin	Beryl Corundum Magnesite Marble Mineral pigments (ochre) Solid fuels Tungsten Zinc
<u>THAILAND (Bangkok)</u>				
Tin-m Tungsten-m	Salt-m		Gems Lead Solid fuels Zinc	Antimony Cement Gold Gypsum
<u>TRINIDAD AND TOBAGO (Port-of-Spain)</u>				
	Bauxite-t	Asphalt	Clay Limestone	Boulders and road stone Diorite Gravel Porcell- anite Sand

m - Mine prduction (including milling)
 p - Processing (including smelting, refining, coking)
 t -- Trade

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APPENDIX A (continued)

Full Coverage	Medium Coverage	Watch List	Minimum Coverage		
			a	b	bx
<u>TUNISIA (Tunis)</u>	Lead-m,p Phosphates-m,p	Zinc	Cadmium Cement Clay, includ- ing refract- ory Flagstone Fluorspar Gypsum Lime Limestone Pyrites Salt Silver Solid fuels		Barite Building stone Celestite Manganese Mercury Paving stone Sand and gravel Stone
<u>TURKEY (Ankara)</u>	Chromite-m Copper-m,p Manganese-m	Cobalt-m	Antimony Cement Pyrites Solid fuels Salt Sulfur	Arsenic Asbestos Lead Magnesite Mercury	Asphalt Borates Clay Emery Marble Meerschaum Silver Zinc
<u>UGANDA (Nairobi)</u>		Cobalt-m Columbite- tantalite- m Copper-m Lead-m Pyrochlore- m	Beryl Tin Tungsten	Asbestos Bismuth Clay Gems Gold	Cement Manganese Silver Solid fuels

m -Mine production (including milling)

p - Processing (including smelting)

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t - Trade

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RESTRICTEDAPPENDIX A (continued)

Full Coverage	Medium Coverage	Watch List	a	b	Minimum Coverage
<u>UGANDA (Nairobi) - continued</u>					bx
					Lithium minerals (ambly- gonite) Mica Phosphates Salt
<u>UNION OF SOUTH AFRICA (Pretoria)</u>					
Asbestos-m Beryl-m Chromite-m Corundum-m Diamonds-m Manganese-m Platinum group metals- m Solid fuels- m, p	Antimony-m Copper-m, p Nickel-m Tungsten-m	Rare earths- m	Cement Fluorspar Gold Gypsum Magnesite Mica Phosphates Pyrites Silver Tin	Arsenic Barite Bismuth Diatomite Feldspar Fuller's earth Gems Graphite Kaolin (China clay) Lead Limestone Mercury Salt Silica Talc Tantalite Vermiculite Wonderstone	Garnets Granite Lime Marble Mineral pig- ments Sandstone Slate
<u>UNITED KINGDOM (London)</u>					
Copper-p Columbite- tantalite-p Nickel-p	Aluminum-p Cadmium-p Celestite-m Cobalt-t	Germanium- p Titanium-p	Barite Cement Gypsum Pyrites	Arsenic Kaolin (China clay)	Gold Sand

m - Mine production (including milling)

p - Processing (including smelting, refining, coking)

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APPENDIX A (continued)

Full Coverage	Medium Coverage	Watch List	a	Minimum Coverage
				b
				bx
<u>UNITED KINGDOM (London) - continued</u>				
Solid fuels- m,p Tin-m,p Zinc-p	Diamonds-t Fluorspar-m Magnesium-p		Salt	Lead Selenium Silver Talc and soapstone Tungsten
<hr/>				
<u>URUGUAY (Montevideo)</u>				
			Cement	Clay, common & refract- ory Feldspar Lime Limestone Mica Sand and gravel Stones, con- struct- ion Talc
<hr/>				
<u>VENEZUELA (Caracas)</u>				
	Diamonds-m	Aluminum-p Cobalt-m Nickel-m Manganese-m Phosphates-m	Cement	Asbestos Gold Gypsum Limestone Magnesite Salt Solid fuels
<hr/>				

m - Mine production (including milling)

p - Processing (including smelting, refining, coking)

t - Trade

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APPENDIX A (continued)

Full Coverage	Medium Coverage	Watch List	a	b	bx
<u>YUGOSLAVIA (Belgrade)</u>					
Aluminum-p	Chromite-m		Antimony	Barite	Arsenic
Bauxite-m,p	Solid		Cement	Bismuth	Asbestos
Copper-m,p	fuels-m,p			Gold	Asphalt
Lead-m,p				Gypsum	Fluorspar
Pyrites-m				Magnetite	Graphite
Zinc-m				Molybdenum	Limestone
				Salt	Manganese
				Silver	Mercury
				Wulfenite (lead moly- bdate)	Millstones Phosphates

m - Mine production (including milling)
 p - Processing (including smelting, refining, coking)
 t - Trade

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APPENDIX BCOMMODITY BY COUNTRY -- LISTING OF MINERALS FOR FOREIGN
REPORTING PURPOSES

Full Coverage	Medium Coverage	Watch List	Minimum Coverage		
			a	b	bx
<u>ALUMINUM</u>					
Austria-p	Brazil-p	Australia-p	Korea,		Belgium
Canada-p	India-p	Gold Coast-p	South		
France-p	Spain-p	Venezuela-p			
Western	Taiwan-p				
Germany-p	United				
Italy-p	Kingdom-p				
Japan-p					
Norway-p					
Sweden-p					
Switzerland-p					
Yugoslavia-p					
<u>ANTIMONY</u>					
Belgium-p	Algeria-m	Argentina	Australia	British	
Bolivia-m	Burma-m	Italy	Austria	Borneo	
Mexico-m,p	Canada-m	Peru	British	(North	
	French	Turkey	Borneo	Borneo)	
	Morocco-m	Yugoslavia	Sarawak	Western	
	Union of		France	Germany	
	South		Japan	Iran	
	Africa-m		Portugal	Greece	
<u>ARSENIC</u>					
Mexico-m,p		Argentina	Australia	Argentina	
Sweden-m		Brazil	Austria	Iran	
		France	Belgium	New Zealand	
		Italy	Canada	Switzerland	
		Japan			

m - Mine production (including milling)

p - Processing (including smelting, refining, coking)

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Full Coverage	Medium Coverage	Watch List	a	b	Minimum Coverage
					bx
<u>ARSENIC</u> - (continued)					Western Germany Greece Peru Portugal Southern Rhodesia Spain Turkey Union of South Africa United Kingdom
					Yugoslavia
<u>ASBESTOS</u>					
Bolivia-m	French		Australia	Chile	Argentina
Canada-m	Morocco-m		Colombia	Egypt	Austria
Southern			Cyprus	France	Brazil
Rhodesia-m			Finland	India	Greece
Union of			Italy	Kenya and	Indochina
South			Japan	Zanzibar	Korea, South
Africa-m			Swaziland	Turkey	Madagascar
				Uganda	New Zealand
				Venezuela	Nyasaland
					Portugal
					Spain
					Switzerland
					Yugoslavia
<u>BAUXITE</u>					
British	French West	Barbados &	Australia	Austria	Indochina
Guiana-m	Africa-m	Leeward	Brazil	British	Japan
France-m, p	Greene-m	Islands-m	India	Borneo	
Gold Coast-m	Italy-m, p	Dominican	Spain	Sarawak	
Indonesia-m	Trinidad and	Republic-m		Western	
Jamaica-m, p	Tobago-t	French		Germany	
Surinam-m		Guiana &		Mozambique	
Yugoslavia-m, p		Inimi-m			
		Haiti-m			
		Malaya-m			

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APPENDIX B (continued)

Full Coverage	Medium Coverage	Watch List	Minimum Coverage		
			a	b	bx
<u>BERYL</u>					
Argentina-m Brazil-m French Morocco-m India-m Portugal-m South West Africa-m Union of South Africa-m	Canada-m Madagascar-m Southern Rhodesia-m	Angola-m Australia-m Surinam-m	Korea, South Mozambique Norway Uganda	Afghanistan Finland Spain	British Somaliland Northern Rhodesia Pakistan Tanganyika
<u>BISMUTH</u>					
Canada-m, p Peru-m, p	Mexico-m, p		Argentina Bolivia France Western Germany Japan Korea, South Spain Sweden	Australia Burma Uganda Union of South Africa Yugoslavia	Belgian Cong Brazil Southern Rhodesia South West Africa
<u>BROMINE</u>					
Israel-m					
<u>CADMIUM</u>					
Belgium-p Canada-m, p South West Africa-m	Australia-m, p Belgian Congo-m Mexico-m United Kingdom-p		France Italy Japan Norway Peru	French Equat- orial Africa Western Germany Tunisia	
m - Mine production (including milling) p - Processing (including smelting, refining, coking) t - Trade					

RESTRICTEDAPPENDIX B (continued)

Full Coverage	Medium Coverage	Watch List	a	b	Minimum Coverage
					bx
<u>CELESTITE</u>		United Kingdom-m			Mexico Argentina Spain Tunisia
<u>CHROMITE</u>					
Philippines-m	Cuba-m		India	Afghanistan	Argentina
Southern Rhodesia-m	Cyprus-m		Japan	Canada	Brazil
Turkey-m	Greece-m		Pakistan	Egypt	French West Africa
Union of South Africa-m	New Caledonia-m		Sierra Leone	Western Germany	Indochina
	Yugoslavia-m			Guatemala	Iran
				Portugal	Sweden
<u>COBALT</u>					
Belgian Congo-m, p	Japan-p	Norway-p	Burma	Australia	Mexico
Belgium-p	Western Germany-p	Turkey-m		Bolivia	Sweden
Canada-m, p	United Kingdom-t	Uganda-m		Chile	
Cuba-m, p		Venezuela-m		Italy	
Finland-m				South West Africa	
French Morocco-m				Spain	
New Caledonia-m, p					
Northern Rhodesia-m					

m - Mine production (including milling)

p - Processing (including smelting, refining, coking)

t - Trade

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APPENDIX B (continued)

Full Coverage	Medium Coverage	Watch List	Minimum Coverage	
			a	b
<u>COLUMBITE-TANTALITE</u>				
Belgian Congo-m	Australia-m, p	Belgium-t (Columbite only)	Korea, South	Argentina
Brazil-m	British	French	Southern	Union of
Malaya-m	Guiana-m	Guiana &	Rhodesia	South Africa
Nigeria-m	Canada-m	Inimi-m	(Tantalite)	(Tantalite only)
Norway-m,p	Western	(Tantalite only)		
United Kingdom-p	Germany-p	Surinam-m		
	Mozambique-m	Swaziland-m		
		Uganda-m		
<u>COPPER</u>				
Belgian Congo-m,p	Australia-m,p	Argentina-t	Austria	Angola
Belgium-p	Cuba-m	Iraq-m	Bolivia	French
Canada-m,p	France-t	Southern	Burma	Morocco
Chile-m,p	Israel-m,p	Rhodesia-m	India	Kenya and
Cyprus-m	Italy-t	Uganda-m	Spain	Zanzibar
Finland-m,p	Sweden-m,p			Korea, South
Western Germany-p	Switzerland-t			Ecuador
Japan-m,p	Turkey-m,p			Saudi Arabia
Mexico-m,p	Union of South			Guatemala
Northern Rhodesia-m,p	Africa-m,p			Taiwan
Norway-m,p				Indochina
Peru-m,p				New Zealand
Philippines-m				Portugal
South West Africa-m				
United Kingdom-p				
Yugoslavia-m,p				

m - Mine production (including milling)

p - Processing (including smelting, refining, coking)

t - Trade

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~~RESTRICTED~~APPENDIX B (continued)

Full Coverage	Medium Coverage	Watch List	a	b	Minimum Coverage
					bx
<u>CORUNDUM</u>			India Malaya Mozambique Nyasaland	Argentina Brazil Madagascar Southern Rhodesia	Belgian Cong. French Equatorial Africa Kenya and Zanzibar Northern Rhodesia Swaziland Tanganyika
Union of South Africa-m					
<u>CRYOLITE</u>					
Greenland-m*					
Denmark-p					
* - Cryolite data reported from Denmark					
<u>DIAMONDS</u>					
Belgian Congo- m	Angola-m	French			Australia
Belgium-p	Brazil-m	Guiana and			India
Gold Coast-m	British	Inimi-m			Indonesia
Netherlands-p	Guiana-m				Liberia
Sierra Leone-m	French				Southern
Union of South Africa-m	Equatorial Africa-m				Rhodesia
	French West Africa-m				
	Israel-p,t				
	South West Africa-m				
	Tanganyika-m				
	United Kingdom-t				
	Venezuela-m				
m - Mine production (including milling)					
p - Processing (including smelting, refining, coking)					
t - Trade					

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APPENDIX B (continued)

Full Coverage	Medium Coverage	Watch List	a	b	Minimum Coverage	
					bx	
<u>ALUMINUM</u>						
	Canada-m Western Germany-m Italy-m Mexico-m Spain-m United Kingdom-m		Argentina France Japan Korea, South Sweden Union of South Africa	Australia Brazil French Morocco India Norway Southern Africa	Bolivia Hong Kong South West Africa Yugoslavia	
<u>GRAPHITE</u>						
	Ceylon-m Madagascar-m	Korea, South-m Mexico-m	Kenya and Zanzibar- m	Austria Western Germany Italy Japan Mazambique	Argentina Australia Brazil Canada French Morocco India Norway Nyasaland So. Africa Spain Un. of S. Africa	Belgian Congo Finland French Equatorial Africa Greenland Sweden Uruguay Yugoslavia
<u>KYANITE</u>				Bechuanaland		
	India-m Kenya and Zanzibar-m					

m - Mine production (including milling)

p - Processing (including smelting, refining, coking)

t - Trade

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Full Coverage	Medium Coverage	Watch List	a	b	Minimum Coverage
					bx
<u>LEAD</u>					
Australia-m,p Belgium-p Canada-m,p French Morocco-m,p Western Germany-m,p Italy-m,p Mexico-m,p Peru-m,p Yugoslavia- m,p	Algeria-m Argentina- m,p Bolivia-m Burma-m,p France-m,p Greece-m,p Japan-m,p Northern Rhodesia- m,p South West Africa-m Spain-m,p Sweden-m,p Tunisia-m,p	Austria-m, p Greenland- m Kenya and Zanzibar- m Switzerland- t Uganda-m	Guatemala Honduras Philippines Tanganyika Thailand	Afghanistan Belgian Congo Chile El Salvador Finland French Equatorial Africa Korea, South Nigeria Norway Southern Rhodesia Turkey Union of South Africa United Kingdom	Angola Brazil British Borneo- Sarawak Cuba Ecuador Egypt French West Africa Hong Kong India Indochina Iran Ireland Nicaragua Portugal Tanganyika

MAGNESIUM

Canada-p	France-p Japan-p Norway-p United Kingdom-p		Switzerland	Italy	Korea, South
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m - Mine production (including milling)
 p - Processing (including smelting, refining, coking)
 t - Trade

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APPENDIX B (continued)

Full Coverage	Medium Coverage	Watch List	a	b	Minimum Coverage
					bx
MANGANESE					
Belgian Congo-m	Chile-m	French	Angola	Australia	Algeria
Brazil-m	Buba-m	Equatorial Africa-m	Israel	British	Argentina
French	Egypt-m	French	Jordan	Borneo-North	Belgium
Morocco-m	Western Germany-t	West	Spain	Borneo	Bolivia
Gold Coast-m	Japan-t	Africa-m		Burma	Canada
India-m	Mexico-m	Panama-m		Greece	Eritrea
Union of South Africa-m	Philippines-m	Taiwan-m		Indonesia	Fiji Islands
	Portugese	Venezuela-m		Italy	Indochina
	India-m			Malaya	Iran
	Turkey-m			New	Korea, South
				Caledonia	New Guinea
				New	and
				Zealand	Papua
				Portugal	Northern
				Sweden	Rhodesia
					Southern Rhodesia
					Switzerland
					Tunisia
					Uganda
					Yugoslavia
					South West Africa
MERCURY					
Italy-m, p	Mexico-m, p		Chile	New	Algeria
Spain-m, p			Japan	Zealand	Argentina
				Peru	Austria
				Turkey	Bolivia
				Union of	Canada
				South	Western
				Africa	Germany
					Korea, South
					Portugal
					Sweden
					Tunisia
					Yugoslavia

m - Mine production (including milling)
p - Processing (including smelting, refining, coking)
t - Trade

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APPENDIX B (continued)

Full Coverage	Medium Coverage	Watch List	a	b	Minimum Coverage
					bx
<u>MICA</u>					
Brazil-m India-m,p Madagascar-m	Argentina-m	Surinam-m	Canada Southern Rhodesia Union of South Africa	Angola Australia Austria Bolivia French Morocco Guatemala Kenya and Zanzibar Korea, South Mexico Mozambique Northern Rhodesia Norway Peru Spain Sweden Tanganyika Uganda Uruguay	Ceylon Eritrea Ethiopia Hong Kong Italy New Zealand Portugal
<hr/>					
<u>MOLYBDENUM</u>					
Chile-m,p	Mexico-m Norway-m,p		Burma Peru	Australia Austria Canada Finland French Morocco Greece Japan Korea, South Spain Sweden Yugoslavia	Western Germany Hong Kong Indochina Thailand
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m - Mine production (including milling)

p - Processing (including smelting, refining, coking)

t - Trade

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APPENDIX B (continued)

Full Coverage	Medium Coverage	Watch List	a	b	Minimum Coverage
					bx
<u>NICKEL</u>					
Canada-m, p Cuba-m, p New Caledonia- m, p Norway-p United Kingdom-p	Brazil-m Finland-m, t France-p Western Germany-p Japan-p Union of South Africa-m	Greece-m Venezuela-m	Burma Indonesia	Sweden	French Morocco
<u>NITRATE</u>					
Chile-m					
<u>PHOSPHATES</u>					
French Morocco-m	Algeria-m Egypt-m Jordan-m Tunisia-m, p	Venezuela-m	Christmas Island France Israel Nauru and Ocean Island New Caledonia and Makatea Island Seychelles Islands Spain Union of South Africa	Australia Brazil British Borneo (North Borneo) Canada Chile Western Germany Indonesia Ireland Japan Korea, South Netherlands West Indies Philippines Tanganyika Uganda	Austria Belgium French West Africa India Indochina Jamaica and Caymen Islands Libya Madagascar Mexico New Zealand Portugal Southern Rhodesia South West Africa Syria Yugoslavia

m - Mine production (including milling)

p - Processing (including smelting, refining, coking)

t - Trade

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Full Coverage	Medium Coverage	Watch List	a	b	Minimum Coverage
					bx
<u>PLATINUM GROUP METALS</u>					
Canada-m,p			Gold Coast	Australia	Japan
Colombia-m				Belgian	New Zealand
Union of				Congo	Norway
South				Ethiopia	Philippines
Africa-m				Indonesia	
				New	
				Guinea	
				and	
				Papua	
				Sierra	
				Leone	
				Taiwan	
<u>POTASH</u>					
Israel-m	Western Germany-m Jordan-m		Spain	India Japan Korea, South	Eritrea (potash salts) Ethiopia Netherlands Portugal
<u>PYRITES</u>					
Cyprus-m	Canada-m,p	Australia-m	Brazil	Algeria	Hong Kong
Italy-m	Finland-m,p	Austria-m,t	Southern	Belgium	Korea, South
Japan-m	France-m	Greece-m	Rhodesia	Ireland	Uruguay
Norway-m	Western	India-m	Turkey	Tunisia	
Portugal-m	Germany-m	Philippines-m	Union of		
Spain-m	Sweden-m	Switzerland-t	South		
Yugoslavia-m			Africa		
			United		
			Kingdom		
			Taiwan		
m - Mine production (including milling) p - Processing (including smelting, refining, coking) t - Trade					
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APPENDIX B (continued)

Full Coverage	Medium Coverage	Watch List	a	b	Minimum Coverage
					bx
QUARTZ					
Brazil-m	Madagascar-m			Luxembourg	Burma Chile Hong Kong Peru Southern Rhodesia (quartzite) South West Africa (rose quartz) Spain Uruguay
RARE EARTHS					
Brazil-m India-m, p	France-p	Union of South Africa-m	Taiwan		Ceylon Egypt French Equatorial Africa Indonesia Liberia Madagascar Malaya Mozambique
SALT					
	Egypt-m French Morocco-m Western Germany-m India-m Japan-m Thailand-m		Aden Argentina Australia Austria Brazil France Indonesia Italy Jamaica and dependencies (Turk, Caicos and Caymen Islands)	Afghanistan Algeria Anglo-Egyptian Sudan Angola Bahama Islands Belgian Congo Burma Canada	Barbados and Leeward Islands Bolivia British Somaliland Denmark Dominican Republic French Cameroons

m - Mine production (including milling)

p - Processing (including smelting, refining, coking)

t - Trade

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APPENDIX B (continued)

Full Coverage	Medium Coverage	Watch List	Minimum Coverage
		a	b
SALT - continued			bx
		Japan Korea, South Malaya Mexico Netherlands Pakistan Spain Switzerland Taiwan Turkey United Kingdom	Ceylon Chile Colombia Costa Rica Cuba Cyprus Ecuador El Salvador Eritrea Ethiopia French Somili- land French West Africa Gold Coast Greece Guatemala Haiti Honduras Indochina Iran Iraq Isreel Italian Somili- land Jordan Kenya and Zanzibar Lebanon Libya (Cyrenaica and Trip- olitania) Mozambique Nicaragua Nigeria Peru

m - Mine production (including milling)

p - Processing (including smelting, refining, coking)

t - Trade

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APPENDIX B (continued)

Full Coverage	Medium Coverage	Watch List	a	b	Minimum Coverage
					bx
<u>SALT - continued</u>					Philippines Portugal Portugese India Saudi Arabia South West Africa Syria Tanganyika Tunisia Uganda Union of South Africa Venezuela Yugoslavia
<u>SOLID FUELS</u>					
Australia-m,p Belgium-m,p Canada-m,p France-m,p Western Germany-m,p India-m,p Mexico-m,p Netherlands- m,p Southern Rhodesia-m Union of South Africa-m,p United Kingdom-m,p	Argentina-t Austria-m,p Brazil-m,p Burma-m Colombia-m Denmark-t Finland-t Italy-t,p Japan-m,p Korea, South-m Luxembourg-m New Zealand-t Nigeria-m Norway-t Pakistan-m Peru-m Portugal-m Spain-m,p Sweden-t	Ecuador-m	Algeria Chile French Morocco Hong Kong-t Indochina Indonesia Iran Malaya Taiwan Thailand Turkey	Afghanistan Belgian Congo British Borneo (Brunei, North Borneo and Sarawak) Ethiopia Greece Greenland Iceland Ireland Madagascar Mozambique Philippines Saudi Arabia Tunisia Venezuela	Guatemala Iraq Israel Kenya and Zanzibar Lebanon Liberia New Caledonia and Makatea Islands South West Africa Syria Tanganyika Uganda

m - Mine production (including milling)

p - Processing (including smelting, refining, coking)

t - Trade

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Full Coverage	Medium Coverage	Watch List			Minimum Coverage
			a	b	bx
<u>SOLID FUELS</u> - continued					
	Switzerland-t Yugoslavia- m,p				
<u>SULFUR</u>					
Italy-m,p Japan-m Mexico-m Norway-m	Bolivia-m Chile-m Colombia-m Peru-m	Ecuador-m India-m Iraq-m Philippines (Pyrites- sulfur)- m	Argentina Canada France Spain Turkey	Algeria Greece Indonesia Taiwan	Austria Costa Rica Egypt Eritrea Finland Guatemala Iceland Iran Libya Nicaragua Portugal Sweden
<u>TIN</u>					
Belgian Congo-m,p Belgium-p Bolivia-m Indonesia-m Malaya-m,p Nether- lands-p Nigeria-m Portugal-m Thailand-m United Kingdom- m,p	Brazil-m,p Burma-m France-t Italy-t Switzerland- t		Argentina Australia Hong Kong- p,t Spain Uganda Union of South Africa	French Cameroons Western Germany- p Indochina Japan Mexico Peru Southern Rhodesia South West Africa Swaziland Tanganyika	Canada Egypt French Morocco French West Africa Mozambique Northern Rhodesia Norway

m - Mine production (including milling)

p - Processing (including smelting, refining, coking)

t - Trade

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APPENDIX B (continued)

Full Coverage	Medium Coverage	Watch List	a	b	Minimum Coverage
					bx
TITANIUM					
Australia (rutile and ilmenite)- m	Japan-p Norway (ilmenite and rutile) -m	Brazil (rutile and ilmenite) -m Egypt (ilmenite) m France-p United Kingdom-p	Burma French and Cameroons (rutile) French West Africa (ilmenite and rutile) Malaya (ilmenite)	French Equatorial Africa Portugal Spain (ilmenite)	Ceylon (ilmenite) Indochina (ilmenite and titaniferous iron)
Canada (ilmenite) -m, p					
India (ilmenite and rutile) -m					
TUNGSTEN					
Argentina-m	Canada-m	Angola-m	France Sweden Uganda	Egypt Finland Japan	Austria Chile French
Australia-m	Union of South Africa-m			Korea, South Malaya New	Morocco French West Africa Western Germany
Belgian Congo-m				Zealand Nigeria Southern Rhodesia	Hong Kong India Indochina
Bolivia-m				United Kingdom	Italy Tanganyika
Brazil-m					
Burma-m					
Mexico-m					
Peru-m					
Portugal-m					
Spain-m					
Thailand-m					
VANADIUM					
Peru-m	South West Africa-m		Northern Rhodesia	Netherlands West Indies	Argentina Western Germany India Mexico

m - Mine production (including milling)

p - Processing (including smelting, refining, coking)

t - Trade

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APPENDIX B (continued)

Primary Coverage	Medium Coverage	Watch List	a	b	Minimum Coverage
					bx
ZINC					
Australia-m,p Belgian Congo-m Belgium-p Canada-m,p French Morocco-m Western Germany- m,p Italy-m,p Japan-m,p Mexico-m,p Peru-m,p United Kingdom- p Yugoslavia-m	Algeria-m Argentina-m,p Bolivia-m Burma-m France-m,p Greece-m Netherlands- p Northern Rhodesia- m,p Norway-m,p South West Africa-m Spain-m,p Sweden-m	Austria-m,p French Morocco-p Green- land-m	Guatemala Thailand Tunisia	Afghanistan Chile Finland French Equatorial Africa Indochina Korea, South	Colombia Egypt India Ireland Nicaragua Nigeria Tanganyika Turkey
<hr/>					
ZIRCON				India	Korea, South
Australia-m Brazil-m					
<hr/>					
<p>m - Mine production (including milling) p - Processing (including smelting, refining, cooking) t - Trade</p>					
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APPENDIX C. Guide for Single-Time Basic Report of Particular Minerals - Check List for Periodic Analytic Reporting

1. Relative importance of particular industry in the economy and in relation to other segments of the minerals industry
Compare value of output with value of total mineral output; or with total value of production of all goods in country if particular mineral constitutes one of the principal products produced; position of commodity in export trade, if significant.
2. Comments on production, consumption and foreign trade
Summarize and highlight important aspects of production, consumption, capacity, foreign trade and prices, with brief comments on significant changes. Include estimates of consumption by principal uses, if obtainable. Include reported or estimated semi-fabricated production and foreign trade, if available. Comments where significant on regional or major company developments.
3. Salient features of the industry
Give, in concise terms, the principal facts about the industry, for example; nature and extent (reserves) of important deposits, including grade of ore; principal mining areas by name and location, with names and possibly production of important mines; principal centers of smelting industry, refining industry, and semi-fabricated industry, with names and capacity of important plants; extent of integration of industry; relationship between primary and secondary industry; principal markets for metals and names of important marketing companies; principal means of transportation, routes, and exit ports.
4. Ownership and financial structure
Report principal ownership of companies, and extent, in broad terms, and investment, including the extent of foreign interest; important programs being carried on by the various agencies of the US Government; and developments underway financed in whole or in part by US companies.
5. Government policies, controls, and laws
Delineate the general policy framework within which mining and metallurgical concerns must operate; briefly note important laws governing ownership, taxation, financing, development; note specific controls on production, export or imports, and prices;

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note dispersal programs, preclusive buying plans for or extent of strategic stockpiling. Estimate the effectiveness of these measures.

6. Taxes, duties and subsidies

Taxes on production, export and import duties and subsidies affecting the mining and metallurgical industry should be given in specific terms.

7. Participation in international commodity agreements

Comments on local reactions to participation in International Materials Conference, GATT, trade agreements, etc.

8. General outlook

Cover briefly the over-all reserve position, supply-consumption position, and general industry trends. Include important proposals for changes in government policy or legislation and an estimate of their probable effect.

9. Description of principal mining methods (and metallurgical processes)

This should include enough detail to indicate principal mining methods and to indicate degree of mechanization, and metallurgical processes in use, by important segments of the industry and approximate proportion of output treated by each method.

10. New activities in exploration and development and technology

Indicate briefly important new developments, the company or group undertaking these developments, and from time to time report on significant progress and outlook. Note government or industry plans for comprehensive development and capital requirements, if any.

11. Competitive position

Indicate principal cost factors of principal sections of industry, such as: grade of ore, cost of extraction, transportation availability and costs, marketing problems.

12. Factors affecting production

When significant, delineate bottlenecks in production, transportation problems, dependence upon foreign sources for supplies and equipment, retention of foreign exchange by producing concerns, etc.

13. Special labor problems

When significant, indicate such problems as lack of skilled labor, disputes, strikes, and working conditions.

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APPENDIX D. Outline for Single-Time Report on Individual Enterprises and Check List for Revisions and Corrections

- I. Name of operating company (refers to holding company or group)
- II. Address in country
- III. Principal officials
- IV. Ownership (by nationality and controlling interests, if possible)
Note: trademarks, brand names
- V. Loans, grants, or government subsidies (emphasize US loans or grants, i.e., from Export-Import Bank, USAID, DMPA, etc)
- VI. Individual mines and mills, smelters, refineries and semi-fabricating plants.
 1. Names of principal installations
 2. Location, including latitude and longitude, street address, distance from distinctive landmarks, elevation and terrain features
 3. Operating company if different from above
 4. Labor force - number of workers (male and female), skilled - semi-skilled - unskilled, number of days per week, shifts per day, hours per shift, Sources of labor and availability of replacements. Health and housing conditions, unions, strikes, wage structure, etc.
 5. Transport facilities
 6. Brief description of installation and capacity (see also items 10 and 14)
 7. Type and quantity of production (1949-1951)
 8. Destination of product including names of principal consumers
 9. Reserves (grade and content; measured; indicated and inferred) [mines only]
 10. Note principal mining methods and metallurgical processes. Use of special equipment, extent of and degree of emphasis on research
 11. Factors of production (power, fuel, water supply, principal sources of raw materials, equipment, and supplies) and bottlenecks (including also seasonal interferences, maintenance problems, obsolescence of equipment, etc.)
 12. Competitive economic position

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13. Note whether mines and processing plants are integrated or individual operations and whether smelters and refineries are typically integrated or custom.
14. Special plant layout and installation data
 - (1) A. Layout of Installation
 - a. Give outline of installation area and orient with regard to nearby installations
 - b. Give dimensions, placement and function of all structures and all servicing facilities such as storage facilities, waste disposal, power facilities, railroad lines, roads, paths, power and phone lines, pipelines (above and below ground) and loading and unloading facilities.
 - c. Describe number of units, type, size, capacity, placement and condition of machines and equipment in each building.
 - B. Structural Details of Buildings
 - a. Number of stories, length, width and height to eaves.
 - b. Construction - Describe footings, foundations, roofs and walls. Specify materials.
 - (2) Details, organization and effect of internal security measures.
 - (3) Defense installations, nature and location.
 - (4) Possibilities and/or provisions for expansion or conversion of production facilities or the installation, to war essentials.
 - (5) Damage to installation as a result of disaster. Extent of damage and amount of production loss.

VII. Outlook

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APPENDIX E. Periodic Statistical Reporting of Minerals
Data for Country as a Whole

1. Mine Production

Report mine production both in terms of gross weight and as metal content of ore (or concentrates). Estimate content of ore (or concentrates) if reported data are not available.

2. Smelter Production

Report output of primary smelters. Report separately output of secondary smelters, if available.

3. Refinery Production

Report output of primary refineries, total or preferably by product. Report separately output of secondary refineries.

4. Exports by Destination and Type of Product

Report foreign trade data by major product categories, i.e., ores and concentrates, unrefined or crude, refined, and scrap. Report separately exports and imports of products. Indicate whether gross weight or metal content.

5. Imports by Source and Type of Product

Report foreign trade data by major product categories, i.e., ores and concentrates, unrefined or crude, refined, and scrap. Report separately exports and imports of products. Indicate whether metal content or gross weight.

6. Actual Consumption

Report actual consumption, as reported or estimated. Indicate, if possible, quantity of secondary included. Do not compute apparent consumption.

7. Stocks - smelter and Refinery

Report only at smelters or refineries, omitting in transit and in process stocks. Report ore or concentrate stocks at mines or mills if abnormal, for example, due to transportation difficulties. Report government stockpiles separately, if available.

8. Prices

Market quotations in local prices (including black market), or any other form as available.

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